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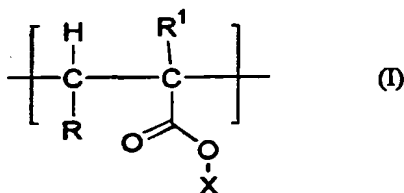
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(54) Title: UNIFORM MOLECULAR WEIGHT POLYMERS



(57) Abstract: A polymer comprising the unit (I) wherein R is selected from the group consisting of hydrogen, C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>1</sub>-C<sub>18</sub> alkenyl, C<sub>1</sub>-C<sub>18</sub> aralkyl, C<sub>1</sub>-C<sub>18</sub> alkaryl, carboxylic acid, carboxy-C<sub>1-6</sub>alkyl, or any one of the C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>1</sub>-C<sub>18</sub> alkenyl, C<sub>1</sub>-C<sub>18</sub> aralkyl, C<sub>1</sub>-C<sub>18</sub> alkaryl substituted with a heteroatom within, or attached to, the carbon backbone; R' is selected from the group consisting of hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl groups; X is an acylating agent and wherein the polymer has a polydispersity of less than 1.4, preferably less than 1.2 and a molecular weight (Mw) of less than 100,000, the polymer is prefer-

ably made by controlled radical polymerisation and is useful in the production of polymer drug conjugates with desirable biological profiles.